

FIG. 1

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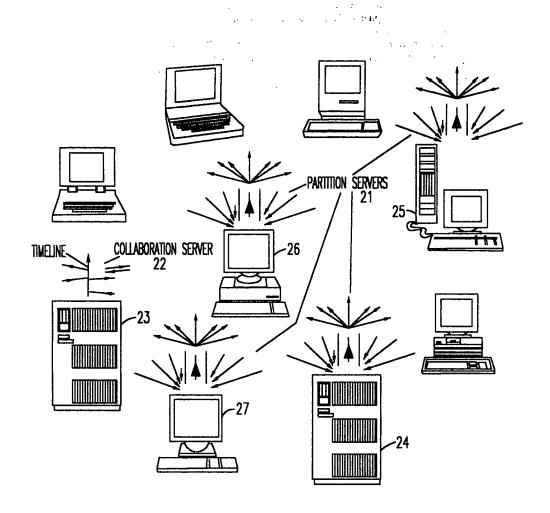


FIG. 2

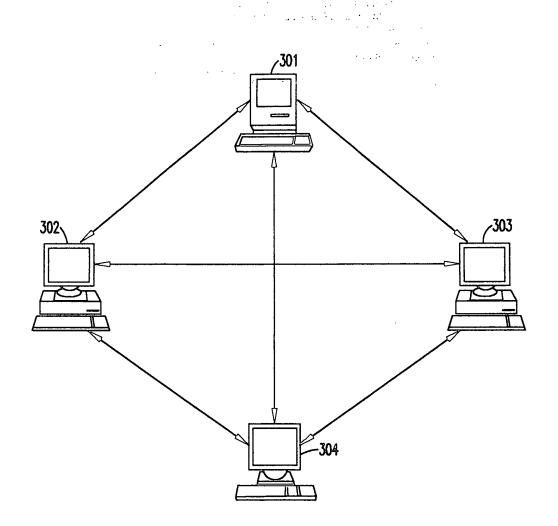


FIG. 3

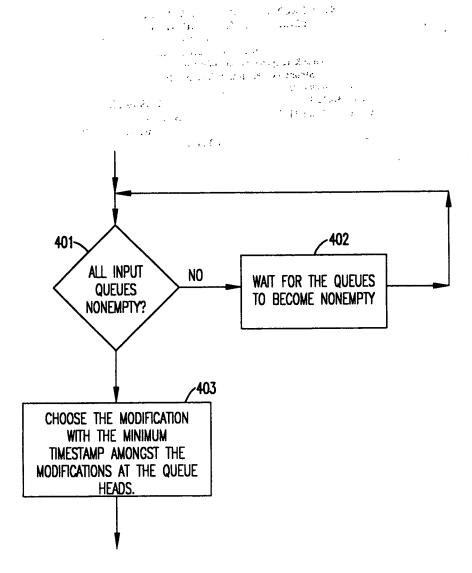


FIG. 4

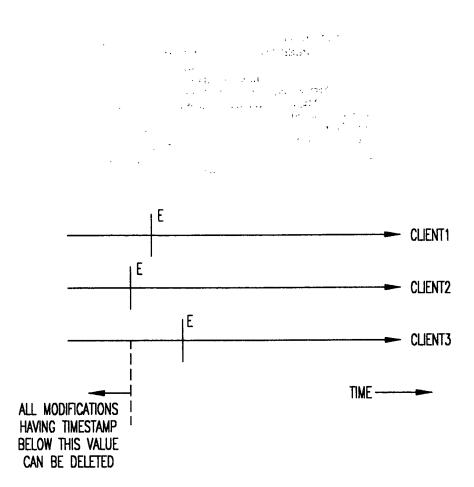


FIG. 5

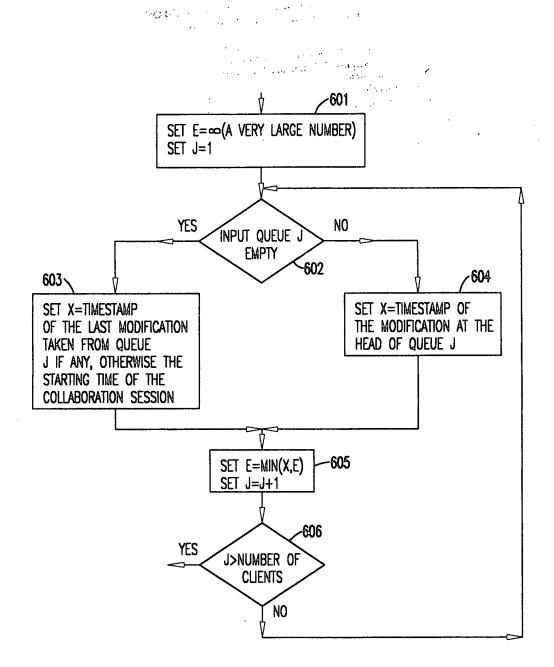


FIG. 6

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6. ZERO OUT OFFSETS > &
7. COMPUTE AVG CLOCK OFFSET
8. INCREMENT CLOCK BY AVG OFFSET

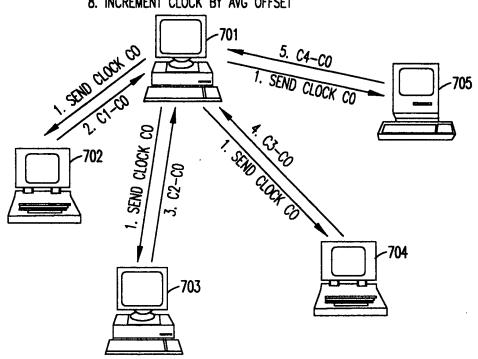


FIG. 7

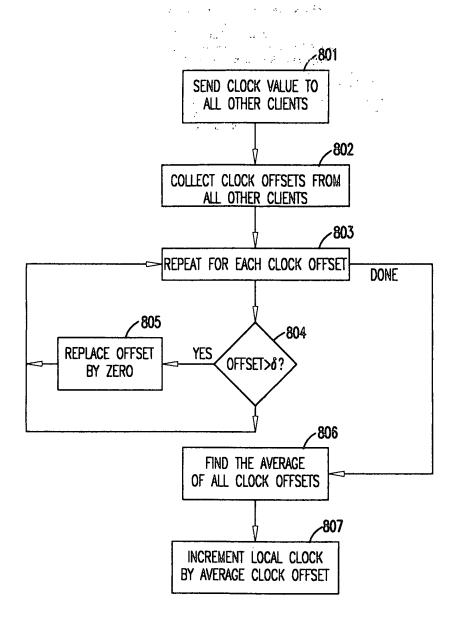


FIG. 8

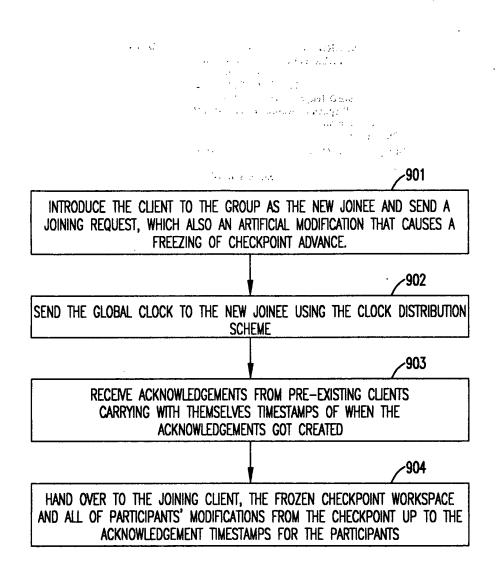


FIG. 9

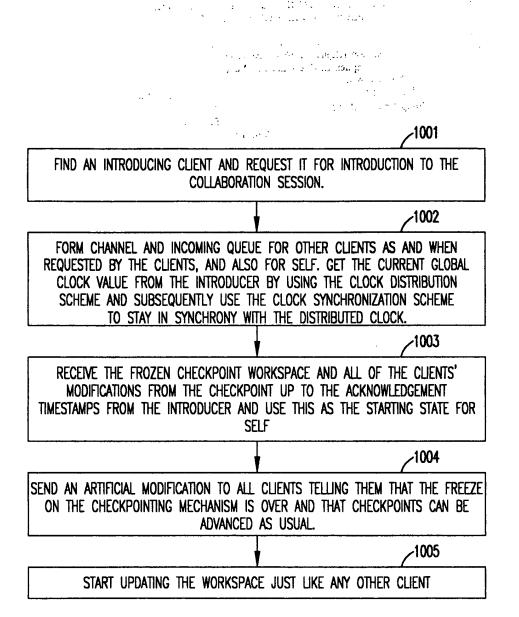
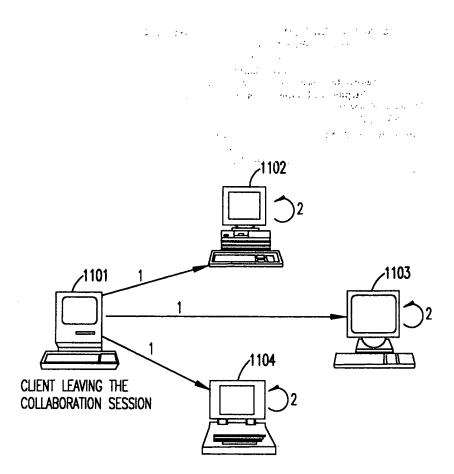


FIG. 10



- 1. SEND A REQUEST, AN ARTIFICIAL MODIFICATION, FOR LEAVING THE COLLABORATION SESSION.
- 2. WHEN A CHECKPOINT IS FORMED WHOSE E IS GREATER THAN OR EQUAL TO THE TIMESTAMP OF THE ARTIFICIAL MODIFICATION IN 1, EACH CLIENT REMOVES CHANNELS TO AND FROM THE LEAVING CLIENT

FIG. 11

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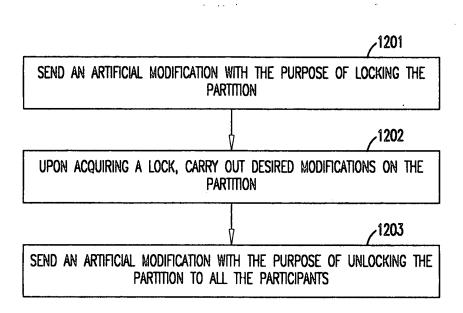


FIG. 12

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-1301

SEND AN ARTIFICIAL MODIFICATION FOR SWITCHOVER TO DISTRIBUTED SERVER. ENSURE THAT A CHECKPOINT IS FORMED THAT INCORPORATES THIS ARTIFICIAL MODIFICATION BY REPEATEDLY SENDING THE MODIFICATION IN CASE OF ROLLBACK TO THE LAST CHECKPOINT

1302

INITIALIZE FORMATION OF THE DISTRIBUTED SERVER STARTING WITH THE CHECKPOINT CONTAINING THE ARTIFICIAL MODIFICATION AS THE INITIAL WORKSPACE.

1303

DISMANTLE CLIENT'S OWN PORTION OF THE PEER-TO-PEER SERIALIZATION MECHANISM.

FIG. 13

IDENTIFY THE CLIENT THAT WILL INITIATE PEER—TO—PEER SERIALIZATION MECHANISM CREATION

REQUIRE ALL CLIENTS EXCEPT THE ONE IDENTIFIED ABOVE TO LEAVE THE DISTRIBUTED SERVER

1403

THE IDENTIFIED SLIENT CHECKPOINTS THE WORKSPACE AFTER ALL OTHER CLIENTS HAVE LEFT THE DISTRIBUTED SERVER AND INITIATES PEER—TO—PEER SERIALIZATION MECHANISM'S CREATION USING THIS CHECKPOINT AND ALL THE CLIENTS

FIG. 14